## NVIRONMENTAL PROTECTION AGENCY GENERAL INFORMATION

Consolidated Permits Program
(1.ead the "General Instructions" before starting.)

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GENERAL INSTRUCTIONS

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VI.		CILI			

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CLARK OIL & REFINING CORP PO BOM Z

HARTFORD, IL

HARTHORNE ST HARTFORD, IL 62049

EPA Region 5 Records Ctr.



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SPECIFIC QUESTIONS

B. Does or will this facility (either existing or proposed)

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area/s/ below. If the label is mplete and correct, you need not complete as I, III, V, and VI (except VI-B which t be completed regardless). Complete all is if no label has been provided. Refer to instructions for detailed item descrip-

s and for the legal authorizations under

MARK FORM

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ch this data is collected.

### II. POLLUTANT CHARACTERISTICS

SPECIFIC QUESTIONS

A. Is this facility a publicly owned treatment works

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to an questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third colur if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your act is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

MARK 'X'

NO ATTACHED

C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in X and B above) FORM 20.  E. Does or will this facility treat, store, or dispose of heardous waters? (FORM 3)  G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids used for enhanced recovery of oil or natural gas, or inject fluids used for enhanced recovery of oil or natural gas, or inject fluids used for enhanced recovery of oil or natural gas, or inject fluids used for enhanced recovery of oil or natural gas, or inject fluids used for enhanced recovery of oil or natural gas, or inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for range of liquid by dydrocarbona? (FORM 4)  Is this facility appropriate fluids for range of liquid by dydrocarbona? (FORM 4)  Is this facility appropriate fluids for range of liquid by dydrocarbona? (FORM 4)  Is this facility appropriate fluids for range of liquid by dydrocarbona? (FORM 4)  Is this facility appropriate fluids for range of liquid by dydrocarbona? (FORM 4)  Is this facility appropriate fluids for range of liquid by dydrocarbona? (FORM 4)  Is this facility appropriate fluids for range of liquid by dydrocarbona? (FORM 4)  Is this facility appropriate fluids for range of liquid by dydrocarbona? (FORM 4)  Is this facility appropriate fluids for range of liquid by dydrocarbona? (FORM 4)  Is this facility appropriate fluids for range of liquid by dydrocarbona? (FORM 4)  Is this facility appropriate fluids for range of liquid by dydrocarbona? (FORM 4)  Is this facility appropriate fluids for range fluids fluids for range fluids fl	Α.	which results in a discharge to waters of the U.S.? (FORM 2A)		X		include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)	X
E. Does or will this facility trest, store, or dispose of hazardous wastes? (FORM 3)  G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids for storage of liquid hydrocarbons? (FORM 4)  1. Is this facility a proposed stationary source which is none of the 2D industrial categories listed in the incomplete of the proposed stationary source which is per year of any air pollutant, regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)  1. Is this facility a proposed stationary source which is per year of any air pollutant, regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)  1. Is this facility and the proposed stationary source which is a stationment area? (FORM 5)  1. Is this facility and the proposed stationary source which is a stationment area? (FORM 5)  1. Is this facility and the proposed stationary source which is a stationment area? (FORM 5)  1. Is this facility and the proposed stationary source which is a stationment area? (FORM 5)  1. Is this facility and the proposed stationary source which is a stationment area? (FORM 5)  1. Is this facility and the proposed stationary source which is a stationment area? (FORM 5)  1. Is this facility and the proposed stationary source which is a stationment area? (FORM 5)  1. Is this facility and the proposed stationary source which is a stationment area? (FORM 5)  1. Is this facility and the proposed stationary source which is a stationary source which	C.	to waters of the U.S. other than those described in		17	16	D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to	X
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids was done of the control oil or natural gas production, inject fluids was done of the control oil or natural gas production, inject fluids was done of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant: regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)  II. NAME OF FACILITY  Skip  IV. FACILITY CONTACT  A. NAME & TITLE (last, first, & title)  A. STREET OR P.O. BOX  A. STREET OR P.O. BOX  S. CITY OR TOWN  A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER  B. COUNTY NAME  C. CITY OR TOWN  O. STATE E. ZIP CODE  F. COUNTY CODE  (If ROWN)  D. STATE E. ZIP CODE  F. COUNTY CODE  (If ROWN)  D. STATE E. ZIP CODE  F. COUNTY CODE  (If ROWN)  I ROWN  D. STATE E. ZIP CODE  F. COUNTY CODE  (If ROWN)  I ROWN  D. STATE E. ZIP CODE  F. COUNTY CODE  (If ROWN)  A. STREET ROUTE NO. OR OTHER SPECIFIC IDENTIFIER  C. C. CITY OR TOWN  O. STATE E. ZIP CODE  F. COUNTY CODE  (If ROWN)  D. STATE E. ZIP CODE  F. COUNTY CODE  (If ROWN)  I ROWN  C. STATE  D. STATE  S. COUNTY CODE  (If ROWN)  D. STATE  C. CITY OR TOWN  O. S	€.	Does or will this facility treat, store, or dispose of	X			F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, under course of depicting waters (FORM 4).	X
1. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant: regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)  18. NAME OF FACILITY  19. IN INDUSTRIAN OF FACILITY  A. NAME & TITLE (last, first, & title)  19. IN AMBE OF FACILITY  A. NAME & TITLE (last, first, & title)  A. STREET OR P.O. BOX  A. STREET OR P.O. BOX  A. STREET OR P.O. BOX  A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER  B. COUNTY NAME  M. A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER  B. COUNTY NAME  M. A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER  C. CITY OR TOWN  C. STATE E. ZIP CODE  F. COUNTY CODE  (If Angwin)  C. CITY OR TOWN  O. STATE E. ZIP CODE  F. COUNTY CODE  (If Angwin)  A. STREET COUNTY CODE  C. CITY OR TOWN  O. STATE E. ZIP CODE  F. COUNTY CODE  (If Angwin)	G.	water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid			16	cial processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy?  (FORM 4)	X
JII. NAME OF FACILITY    SKIP     SKIP     II. II. 19 30  IV. FACILITY CONTACT    A. NAME & TITLE (last, first, & title)     S. PHONE (area code & no.)     2	· 1.	Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an		×		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment	×
1 SKIP  12 IV. 12 20  IV. FACILITY CONTACT  A. NAME & TITLE (last, first, & tittle)  B. PHONE (area code & no.)  2 V 3 n P e t t e n S L M a n a g e r C + S  3 P O B O X 7  19 IS  B. CITY OR TOWN  C. STATE D. ZIP CODE  4 H a r t f o r d  VI. FACILITY LOCATION  A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER  5 H a w t h o r n e S t  11 IS  B. COUNTY NAME  M a d i s o n  12 C. CITY OR TOWN  O. STATE E. ZIP CODE F. COUNTY CODE  (If Anown)  15 C. CITY OR TOWN  O. STATE E. ZIP CODE F. COUNTY CODE  (If Anown)	311.		40	. 41	48		
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VII. SIC CODES (4-digit, in order of priority)	The same of the sa
A. FIRST	B. SECOND
5 19 11 (specify)	(specify)
Petroleum Refining	15 15 19
C. THIRD	D. FOURTH
(specify)	(specify)
15 16 · 19	15 16 - 16
VIII. OPERATOR INFORMATION	B. Is the name listed
	Item VIII-A also ti
8 C. l. a. v. k. Oil t. Refining	Owner?
13/10	. 66 ES LINO
C. STATUS OF OPERATOR (Enter the appropriate letter into	the answer box; if "Other", specify.)  D. PHONE (area code & no.)
F = FEDERAL M = PUBLIC (other than federal or state)	D (specify)
S = STATE O = OTHER (specify) P = PRIVATE	A 6/8 254 7361
E. STREET OR P.O. BOX	15   16 - 16   19 - 21   22 -   28
	<del></del>
10 Box 7	
F. CITY OR TOWN	G.STATE H. ZIP CODE IX, INDIAN LAND
	Is the facility located on Indian lands?
BH2rtford	<u> </u>
18 10	40 41 42 47 . 4 51
X. EXISTING ENVIRONMENTAL PERMITS	Control of the second of the s
A. NPDES (Discharges to Surface Water) D. PSD (Air	r Emissions from Proposed Sources)
9 N T L b b b / 2 4 4 9 P	
9 N T L b b b / 2 U 4 9 P	
B. UIC (Underground Injection of Fluids)	E. OTHER (specify)
9 U 9	(specify)
15 16 17 18 - 30 15 16 17 18	See attached sheet.
C. RCRA (Hazardous Wastes)	E. OTHER (specify)
9 R 9	(specify)
15 16 17 18 - 30 16 16 17 18	30
XI. MAP	
	tending to at least one mile beyond property bounderies. The map must show
	ing and proposed intake and discharge structures, each of its hazardous waste ere it injects fluids underground. Include all springs, rivers and other surface
water bodies in the map area. See instructions for precise req	
XII. NATURE OF BUSINESS (provide a brief description)	γ (. ηγ ) γ
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distillation Pagulting et ages and o	depropanized, debutanized, depentanized and
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dehexanized laker fractionation and	es gas oils which are refined to fuel oils and
fluid feed stocks. loke is also produced. H	At the reformer, finished gasdine is produced, along
with fuel gas. The fluid unit produces	gasdine and feed for the alkylation unit, while
the alkylation unit produces gasdine,	propane, and butane.
XIII. CERTIFICATION (see instructions)	
I certify under penalty of law that I have personally exami	ined and am familiar with the information submitted in this application and all
	sons immediately responsible for obtaining the information contained in the
application, I believe that the information is true, accurate	e and complete. I am aware that there are significant penalties for submitting
false information, including the possibility of fine and impri	isonment.
A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE C. DATE SIGNED
Richard P. Nelson	1/9-1/1/2/ 11/12/ca
Vice President-Manufacturing	Keellas J. V War 11/1/80
COMMENTS FOR OFFICIAL USE ONLY	
TOTAL PROPERTY OF THE PROPERTY	

CONTINUE ON REVERS

handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY — For each listed waster entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE - For each quantity entered in column 8 enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE CODE METRIC UNIT OF MEASURE KILOGRAMS....... 

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

#### D. PROCESSES

PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes, If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Selectione of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.

In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.

3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

	A. EPA	·	C. UNIT		D. PROCESSES									
LINE NO.	HAZARD. WASTENO (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	OF MEA- SURE (enter code)				1.	PRC		SS ( ter)	ODE	5		2. PROCESS DESCRIPTION (if a code is not entered in D(1))
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X-2	D 0 0 2	400	P	7	7	) 3	L	8	0		T		ı	
X-3	D 0 0 1	100	P	7	, (	) 3	L	8	0		1	•	1	`
X-4	D 0 0 2	,				~ I		Ţ	1					included with above

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CLARK

11 119050002 Copy:

Clark Oil & Refining Corporation 5/5/83

Woodriver Refinery P.O. Box 7 Hartford, Illinois 62048 618-254-7301

November 23, 1982

Mr. William Miner
Chief, Technical, Permits, and Compliance Section
U.S. E.P.A. RCRA Activities
Box A 3587
Chicago, IL 60690

RECEIVED

DEC 1 0 1992

WASTE MANAGEMENT BRANCH EPA. REGION V

Dear Sir:

Enclosed please find an amended Part A "Application for a Hazardous Waste Permit" and a list of processes we wish to withdraw.

After review of our present waste classifications and foreseeable process operations, we have chosen to discontinue the permitting process in regard to Part B.

In our original Part A application, a long list of tanks was included as hazardous waste storage facilities. It is now apparent that these tanks were misidentified. The tanks have all served in the past as raw material or finished product storage tanks. They were included in the application since we felt they could be used as hazardous waste storage facilities if the need arose. None of the tanks have been used for this service, and we can foresee no need for them in the future.

We are in the process of designing and building a weathering pad for leaded tank bottoms. It is my understanding that this is permitted under Part 122.23 Section 2, "Changes in the Facility During Interim Status". The pad was part of our original plans, but actual construction was not envisioned when the original Part A was filed. Information from API Publication 2015A, published in June 1982, indicates that sludge from leaded gasoline tanks will normally weather within four weeks when the sludge temperature is above  $32^{\circ}F$ . Therefore, we see no problem with exceeding the ninety day period for holding the waste.

If other information beyond this letter and the amended Part A application is needed, please advise us as to what is required.

Sincerely,

CLARK OIL & REFINING CORPORATION

S.L. Van Pettin

S. L. Van Petten Manager of Construction and Services

Att.

1LD 041889 023 PTA GEN TSD 1

12-110185 DECENTED

The following is a list of processes to be withdrawn and our reasons for withdrawing. The list is as it appears on our original Part A application.

Process Code	Amount	Unit of Measure	Reason for Wi	thdrawal
T 01	1,728,000	U	Pretreatment.	Not part of Part B.
T 01	1,728,000	U	11	n n
T 01	1,728,000	U	<i>II</i>	11 11
T 01	9,000	U	Neutralizatio	on. Not H.W. Facility
T 01	2,467	U	Reclamation.	Not treating.
SO2	20 <b>,</b> 500	$\it G$	Misidentified	d. Never used.
SO2	20 <b>,</b> 150	$\it G$	II .	II .
SO2	61,538	$\it G$	"	ıı .
SO2	61,538	$\it G$	n .	11
SO2	61,538	$\it G$	n	II .
SO2	61,538	$\it G$	"	<i>II</i>
SO2	95 <b>,</b> 808	$\it G$	ıı .	f f
SO2	95 <b>,</b> 808	$\it G$	11	rr .
SO2	95 <b>,</b> 808	${\it G}$	"	rr .
SO <b>2</b>	95 <b>,</b> 808	$\it G$	<i>u</i>	11
SO2	214,122	$\it G$	11	f f
SO2	214,122	$\it G$	ıı .	11
SO2	214,122	G	"	"
SO2	214, 122	$\it G$	"	11
SO2	108,239	$\it G$	11	11
SO2	108,239	$\it G$	"	11
SO2	420,000	$\it G$	11	II .
SO2	91 <b>,</b> 150	$\it G$	11	11
SO2	62,230	$\it G$	11	11
502	58,860	Ğ	"	"

II. SIC CODES (4-digit, in order of priority)	
A. FIRST	B. SECOND
7 2911 (specify) Petroleum Refining	s (specify
C. THIRD	D. FOURTH
(specify)	c     (specify)
5 16 - 10	15 16 - 19
/III. OPERATOR INFORMATION	3. Is the name listed in
A. NAME	Item VIII-A also the Owner?
3 Clark Oil & Refining Corporation	owner/
15 10	153 GG 7E3 W 140
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer	
F = FEDERAL M = PUBLIC (other than federal or state) S = STATE O = OTHER (specify) P = PRIVATE  (specify) 56	ecify)  A 618 254 7301  15 16 - 10 19 - 21 22 - 20
E. STREET OR P.O. BOX	
P.O. Box 7	
F. CITY OR TOWN	G.STATE H. ZIP CODE IX, INDIAN LAND
<u>c</u>	Is the facility located on Indian lands?
B Hartford	IL 62048 TYES A NO
15 16 -	40 41 42 47 - 31
X. EXISTING ENVIRONMENTAL PERMITS	from Proposed Sources
A. NPDES (Discharges to Surface Water)  D. PSD (Air Emissions	from Proposed Sources)
9 N I, L, O, O, O, 1, 2, 4, 4, , , , , 9 P	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	(specify)
9 U 9	(specify)
13 16 17 18 - 20 18 16 17 18	30
C. RCRA (Hazardous Wastes) E. OTHE	₹ (specify)
9 R I L D Q 4 1 8 8 9 Q 2 3 9	And the standard day has
Attach to this application a topographic map of the area extending to	at least one mile beyond property bounderies. The map must show
the outline of the facility, the location of each of its existing and programment, storage, or disposal facilities, and each well where it injections.	roposed intake and discharge structures, each of its hazardous waste
water bodies in the map area. See instructions for precise requirement	
XII. NATURE OF BUSINESS (provide a brief description)	The state of the s
Petroleum Refining. Crude is desalted and und Resulting streams are depropanized, debutanize	
Resulting streams are depropanized, desutanize   fractionator	
is a byproduct. At the reformer, finished gas	oline is produced along with fuel gas. The
fluid unit produces gasoline and feed for the	
produces gasoline, propane and butane.	
XIII. CERTIFICATION (see instructions)	
I certify under penalty of law that I have personally examined and a	m familiar with the information submitted in this application and all
attachments and that, based on my inquiry of those persons imm application, I believe that the information is true, according and com- false information, including the possibility of fine and imprisonment.	ediately responsible for obtaining the information contained in the plete. I am aware that there are significant penalties for submitting
A. NAME & OFFICIAL TITLE (type or print) B. SIGNAT	URE C. DATE SIGNED
RICHARD P NELSON	1. O()X) 1. 1. 1. 1.
VICE PRESIDENT REFINING OPERATIONS SEE	mara J 1 12/3/82
COMMENTS FOR OFFICIAL USE ONLY	· · · · · · · · · · · · · · · · · · ·
C	
PA Form 3510-1 (6-80) REVERSE	**************************************

San Land Control of the Control

3 T0 E 20 6 T0 4 52 7 8 3 9 4 10

III. PROCESSES 'continued'
C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "TU4"). FOR EACH PROCESS ENTERED HEFE INCLUDE DESIGN CAPACITY.
Pad for weathering leaded tank bottoms. An annual quantity of this waste cannot be accurately determined since the tanks are normally cleaned only when entry into the tank is required. When cleaning is necessary, experience has shown the average volume of bottoms to be approximately $52 \text{ yd}^3$ . This material would be spread on the pad to a depth of about three inches and allowed to weather until no longer hazardous. API literature indicates the period of time required for the weathering above $32^{\circ}\text{F}$ is four weeks. Pad will be designed for sixty-six cubic yards.

1 4	, UE	SCRIPTIO	NUFI	IAZAK	DUUS	MASIE	S	,- 			مندننگ		للسيقين	فيسته الأراقي	وأفار المحدوث			مشار عسا	بكثو ببدو	e.
A.	EPA	HAZARDO	US WA	STE NU	MBER -	- Enter 1	he four	-aigit	number	from 40	CFR, S	Suppart	Dio	r each	isted ha	azardous	waste you	will ha	andie. It	٠.
			_					A .	. —				/ 1 /		055		and the second of			

vou handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY - For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste/s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS. ,	<b>T</b>	METRIC TONS	<i>.</i> . , M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes, If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number snall be described on the form as follows:

- 1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
- Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

	A. EPA						C. UNIT													D. PROCESSES		
HAZARD. WASTE D (enter code)		. )	QUANTITY OF WASTE		SURE (enter code)		1. PROCESS CODES (enter)					DE	s	2. PROCESS DESCRIPTION (if a code is not entered in $D(1)$ )								
X-1	Y		0	5	4	900		P		T	0	5	? /	ד מ	8	0	1	T		7	1	
X-2	D		0	0	2	400		P		T	0	) 3	3 1	D	8	0	1	1		1	1	
X-3	D	) (	2	0	1	100		P		T	0	Î	? //	D	8	0	T	1		Т	7	
X-4	L	1	0	0	2						T	Т	1			Γ	Τ-	7		T	-1	included with above

EPA Form 3510-3 (6-80)

PAGE 2 OF 5

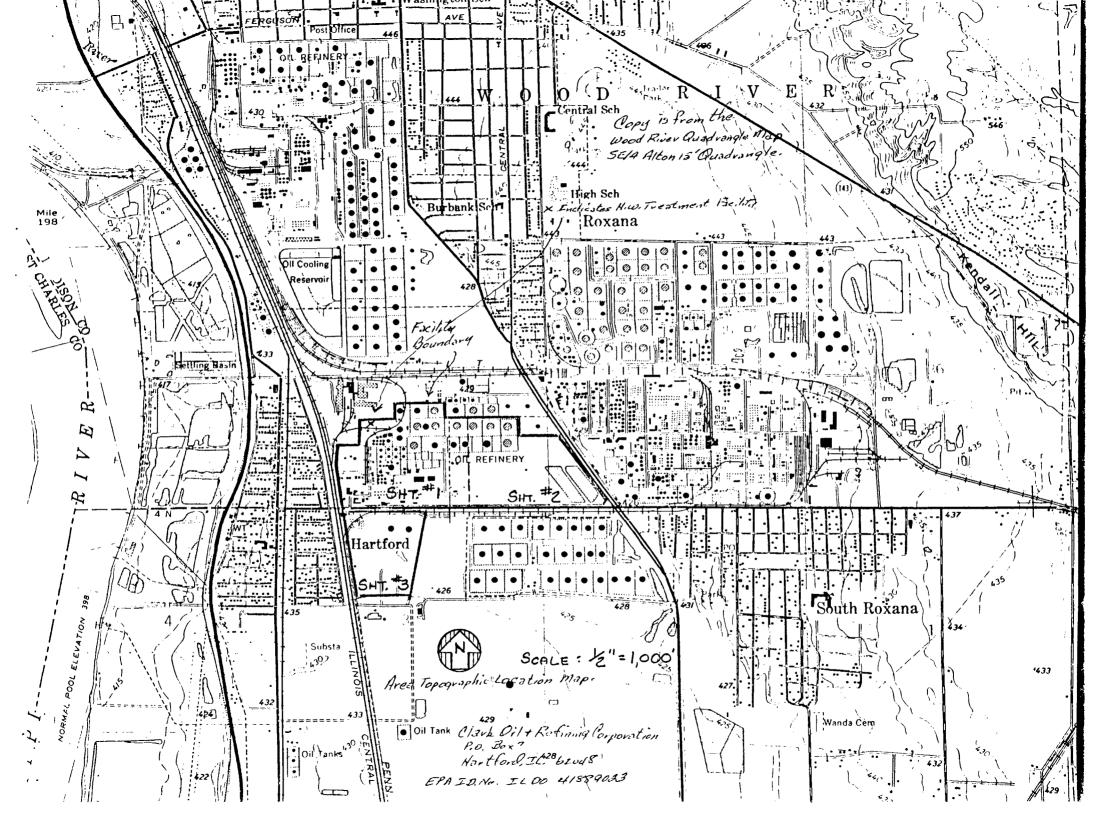
CONTINUE ON PAGE

. 7

S OFFICIAL CEL

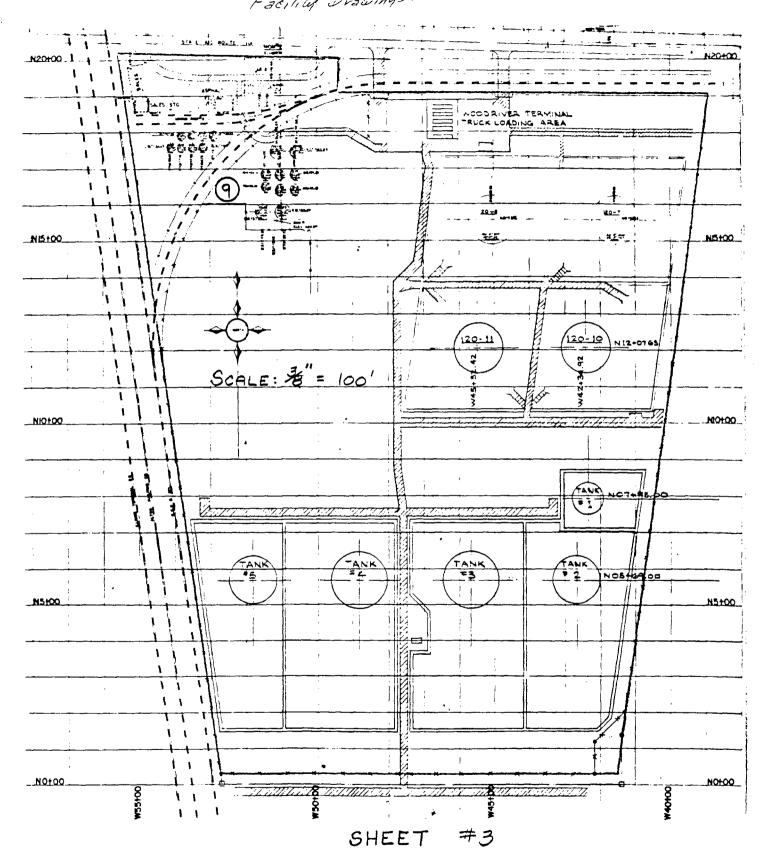
381, 40, NOT 27, 1070 147124 1 I, L D, O, 4, 1, 8, 8, 9, 0, 2, 3 D.DUP DUP M. DESCRIPTION OF TRANSPORTS W ALEZA : CUNIT DE MASTE CONTROL D. PROCESSES 2. PROCESS DESCRIPTION (If a cook is not entered in 17-17) 1.18 SCESS CODES (nter) K 0 5 2 PT 0 4 19,600 1 5 6 9 10 11 13 14 15 16 17 18 19 20 21 23 24 25 26 EPA Form 3510-3 (6-80)

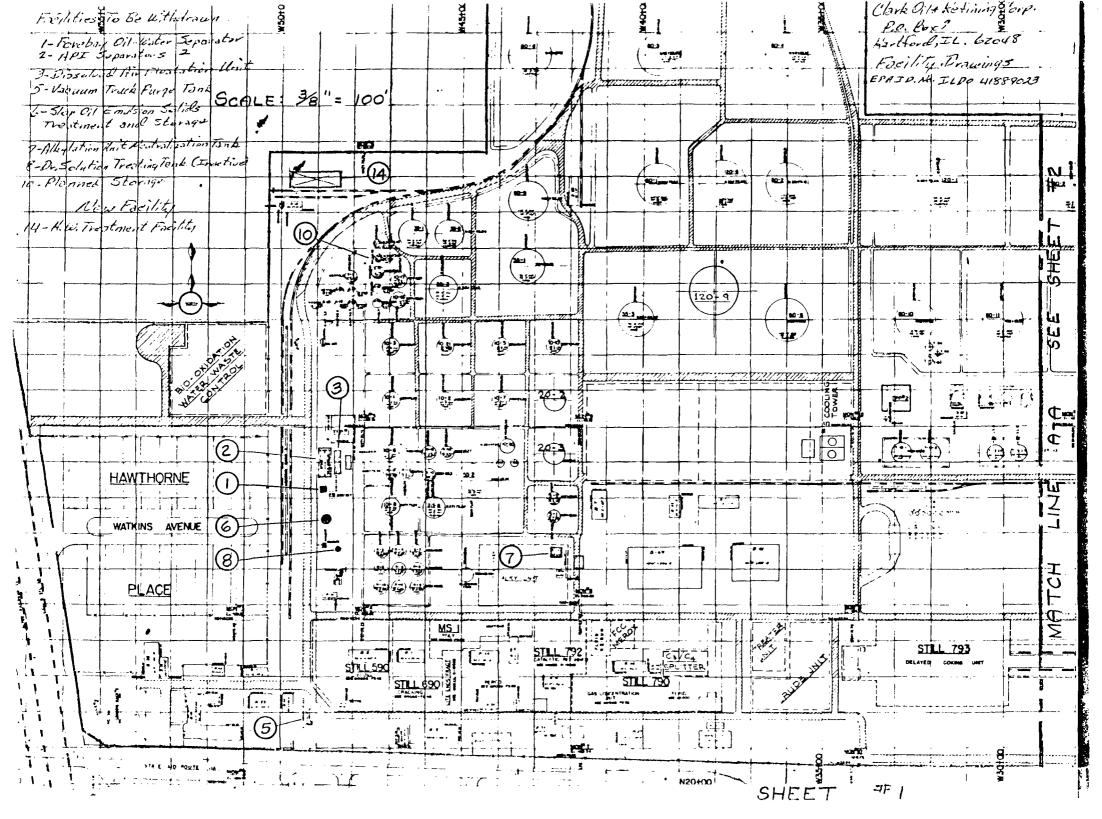
C Selectrom the front.			
AV. LESCAUTION OF HAZARDOUS WASTES (**	20 W.J.	A.	
E. USE THIS SPACE TO LIST ADDITION PROC	ESS CC	DES FROM ITEM D(1) ON P/ 3.	The second secon
			•
			•
EPA I.D. NO. (enter from page 1)			
TID041889023 6			
V. FACILITY DRAWING	- 4-00		
All existing facilities must include in the space provided on p	age 5 a so	cale drawing of the facility (see instructions for mor	re detail).
VI. PHOTOGRAPHS	4 4 4		
All existing facilities must include photographs (aeria			
treatment and disposal areas; and sites of future stora	ige, trea	tment or disposal areas (see instructions for n	nore detail).
VII. FACILITY GEOGRAPHIC LOCATION	<u> </u>		
LATITUDE (degrees, minutes, & seconds)		LONGITUDE (degree	es, minutes, & seconds)
3 8 5 0 0 5 65 67 67 61 69 - 71		0 9 0 0	0 4 0 5 9
VIII. FACILITY OWNER	دد بالدخوب دگاری		
A. If the facility owner is also the facility operator as in	sted in Se	ection VIII on Form 1, "General Information", plac	ce an "X" in the box to the left and
skip to Section IX below.			
B. If the facility owner is not the facility operator as lis	sted in Se	ction VIII on Form 1, complete the following item	ns:
1. NAME OF FACIL	ITV:CIE	CAL OWNER	2. PHONE NO. (area code & >
	117566	GALOWNER	2. PAGNE NO. (urez code &
E Clark Oil & Refining Corporation	n		3 1 4 8 8 9 9 6
3. STREET OR P.O. BOX		4. CITY OR TOWN	55 56 - 53 59 - 61 62 - 5. ST. 6. ZIP CODE
F: 7930 Clayton Road	-	D. 1 1 1 1 1 1	M O C 3 1 1 7
Is it	G	Richmond Heights	M 0 6 3 1 1 7
IX. OWNER CERTIFICATION		a Linear service and the servi	
I certify under penalty of law that I have personally e			
documents, and that based on my inquiry of those in submitted information is true, accurate, and complete			
including the possibility of fine and imprisonment.			,
A. NAME (print or type)	B. SIGN	ATURE	C. DATE SIGNED
X, OPERATOR CERTIFICATION		The state of the s	
I certify under penalty of law that I have personally e			
documents, and that based on my inquiry of those in submitted information is true, accurate, and complete			
including the possibility of fine and imprisonment.	., , aiii a		and in the state of the state o
A. NAME (print or type)	B/SIGN	IATURE	C. DATE SIGNED
	1	10 0000	1/
RICHARO P NELSON	Mu	Mand F. Vileson	12/3/82
EPA Form 3510-3 (6-80)		PAGE 4 OF 5	CONTINUE ON PAG



Clark Oil + Redining Corporation 0.0. Box 7 Hartford, IL. 62048 EPA ID. NO. ILEO 41889023 Facility Drawings.

Facilities to Be Withdrown 9- Planned Storage





NATIONAL MARINE SERVICE

ESTABLISHED 1927

One of the NICOR basic energy companies

1750 BRENTWOOD BOULEVARD ST. LOUIS, MISSOURI 63144 A R E A 3 1 4 9 6 8 - 2 7 0 0

May 27, 1983

RECEIVED

JUN 02 1983

Mr. Mark Haney, Manager
Compliance Sub-Unit
Illinois Environmental Protection Agency
Division of Land Pollution Control
2200 Churchill Road
Springfield, Illinois 62706

E.P.A. - D.L.P.C. STATE OF ILLINOIS

Re: 11905001--Madison County

Hartford/National Marine

Service

Subpart F: Groundwater

Monitoring

Dear Mr. Haney:

This letter will transmit our response to your May 2nd notification. The company is continually upgrading analysis techniques and procedures with respect to groundwater monitoring.

The intent of groundwater monitoring is verification that a surface impoundment does not contribute to subsurface water quality degradation. Also, a change in water quality, which is significant, should forewarn the company that a problem is developing. We intend to meet these needs and be in compliance with IEPA regulations.

 $\,$  Refer to the attached response report and direct any questions to the writer.

Very truly yours

James R. Labit, P.E.

JRL:pk Enclosure

## PECEIVED

Groundwater Monitoring
Hartford/National Marine Service
Title 35, IAC, Part 725, Subpart F

JUN 02 1983

— D.L.P.C.

Section 725.194(2)(2)(A). The subsurface water near the lagoons is not considered to be drinking water quality without subsequent processing through normal water plant procedures. No private drinking wells are in the immediate vicinity of the lagoon system; therefore, application of Appendix III parameters are inappropriate for this specific case. Materials placed into the lagoon system do not have Appendix III items as constituents, rendering data from Appendix III water analysis as questionable.

To fulfill the monitoring obligations alternate parameters (C.O.D., Benzene, Toluene, Xylene, pH) were selected to provide quarterly report data. At the time that the first annual report was submitted, two (2) quarterly monitoring reports (July 1982, November 1982) had been submitted to your office. Because we had not received information to the contrary, we believed the parameter substitutions to be approved.

Section 725.194(2)(2)(B). At the time the annual report was generated, only two (2) quarter groundwater analyses were available and would not have provided a meaningful water quality evaluation. We were also developing a computer aided statistical analysis program, which was not completed. We now have four (4) quarters of monitoring data, plus a computer program to provide meaningful and detailed evaluation. The data thus far collected does not indicate an adverse contribution to the groundwater quality by the lagoon system.

Sample Replications - Because the wells were new and sampling was performed immediately after the installation, we were concerned that residual construction materials might distort the sample readings. We analyzed only one (1) sample per well. Subsequently, a management decision was made to continue quarterly sample analysis beyond the first year. Combined with computer analysis, the sampling program should exceed all regulatory requirements. Multiple sample replications during the first year are to off-set and smooth analytical variances, the computer model eliminates that problem.

Sample Parameters - As stated previously, we believed that the parameter substitution was acceptable. During this analysis we noticed that a partial inconsistency exists among the quarterly parameters. Beginning with the 3rd quarter 1983, the parameter list will include the following:

Chloride Iron Manganese Phenol Sodium Sulfate Benzene Toluene Xylene pH Specific Cond

Specific Conductance Chemical Oxygen Demand We are substituting C.O.D. for T.O.C. due to the nature of the materials in the lagoon. Organic Halogen has been eliminated because local laboratories are not equipped to provide the analysis and it is not relevant to materials placed in the lagoon system.

Statistical Analysis - The company has a computer software package which includes a statistical analysis and projection section. Any type of standard statistical analysis can be produced through the system. Students' t testing, both single and double tail, can be performed. A model for normal distribution testing has been created to analyze the sample data. The software system needs only two data pieces as analytical input.

Three (3) parameters (Benzene, Toluene, Xylene) were not statistically analyzed because each has remained unmeasurable for all samples. C.O.D., pH, and conductance have been analyzed. Where a specific parameter sample reading is not available, replications of existing data points are substituted. A distinction between upgradient and downgradient wells has not been made for creation of mean and standard deviation values.

Individual well samples are identified through an I.D. number, for example: 308211. 30 is the quarter, 82 is the year, 1 is well #1, and 1 is the first replicate sample taken from this well for this quarter. Each parameter reading, by well, is statistically analyzed. A new mean and standard deviation is created for each successive parameter reading. A 90% confidence (2.5 standard deviations from the mean) is established for each reading. Normal approximation and frequency tables are created for each well sample parameter. Sample statistics for each data piece show correlation between a standard normal curve (N 0,1) and the randomly generated curve. Both skewness and kurtosis describe the fit. Finally, a histogram for the last reading of each parameter is plotted to give visual reinforcement of the numerical information and actual high (low) points for the respective populations.

Analysis of Existing Data - Review of Plate #1 indicates all readings to be within 2.5 standard deviations of the mean (90% confidence). Conductance sample 1Q8331 is 1064 vs. 1053 @ 90% confidence. Subsequent sample 2Q8331 is 855, back within 90% confidence. Conductance sample 1Q8331 is compared to the conductance histogram (Plate #5) to determine if it occurs within the expected, randomly generated population. A population high value of 1140 is expected; therefore, the 1064 reading is within a normal population and represents no significant change.

Section 725.194(2)(2)(C). No change of surface elevations has occurred since the establishment of the monitoring well system.

	240511	340221	240731	ONOLTI	780211	140221	180231	140211	1403[1	140351	
COO READINGS	33	17	42	53	33	17	42	53	33	17	
MEAN COD	25	30.67	36.25	35.64	32.50	33.86	36 . 25	35.89	34	34,73	
STODEV COD	11.31	12.66	15.22	13.26	14.88	13.35	14 09	13.22	13.82	13.33	
COOR	53.28	62.32	74.29	68.75	67.70	67.22	71.47	68.95	68.56	-68,06 -	
PH READINGS	6.940	7	6.960	7.110	6.940	7	6.960	7.110	7.060	7.110	
MEAN PH	6.970	6.967	7.003	6.990	6.992	6.987	7.003	7.009	7.019	7.039	
STODEV PH	.8424	.0306	.#759	.0714	.0640	<b>#596</b>	.0703	.0685	.0720	.8954	
PHRH	7.076	7.043	7.192	7.169	7.152	7.136	7.178	7.180	7.199	7.278	
PHRL	6.864	6.890	6.813	6.811	6.832	6.838	6.827	6.838	6.839	6.800	
COMDUCT READINGS	813	633	654	714	813	633	654	714	787	575	
HEAN CONDUCT	723	700	703.5	725.4	710	702	703.5	712.8	699	732.2	
STODEN CONDUCT	127.3	98.42	80.67	85.31	85.12	89.54	74.68	75.20	83.22	135.4	
CONDUCTR	1041	946.1	915.2	938.7	922.8	903.3	890.2	900.8	907.0	1071	
	108331	108341	208311	208321	208331	208341					
COD READINGS	42	53	33	17	42	53					
MEAN COD	36.25	36	34.64	35.13	36.25	36.25					
STODEV COD	13.77	13.21	13.67	13.31	13.61	13.61					
CODR	70.66	69.02	68.82	68.41	70.28	70.28					
PH READINGS	7.240	7.340	7.458	7.130	7.290	7.200					
NEAN PH	7.064	7.894	7.4%	7.199	7.115	7.115					
STDDEV PH	.1258	. 1611	.1551	. 1576	. 1539	. 1539					
PHRH	7.379	7.497	7.484	7.503	7.500	7.500					
PHRL	6.750	6.691	6.709	6.715		6.730			-		
CONDUCT READINGS -	1064	<del>-690-</del>	917-	562	855	704			 		 
MEAN CONDUCT	- 728.7	743.2	730.2	738.5	736.4	736.4-					_
STODEV CONDUCT	129.7	134.7	138.2	137.0	132.6	132.6					
CONDUCTR	1053	1889	1976	1081	1068	1968					
				*							

398211 398221 398231 398241 498211 498221 498231 498241 198311 198321

STATISTICAL MODEL FOR HARTFORD LAGOON MONITORING WELLS

ENTER SOLVE OPTIONS .BASE MODEL

PROBABILI1	Y NF	HAL HE	RETHO	CREATER	THAN	INDICATED
. 1 KUUNDILLI	1 01	YHLUL	טוונטט	DIVEBIED	11111111	INVIGNILU

	90	80	70	68	50	40	30	20	10	
CODR										
398211	11.10	16.02	19.57	22.60	25.43	28.26	31.29	34.84	39.75	
308221	14.9	20.5	24.6	28.0	31.3	34.5	38. A	42.9	47.7	
398231	17.2	23.8	28.6	32.7	36.5	40.3	44.4	49.1	55.7	
3Q8241	19.8	25.5	29.7	33 2	36.5	39.7	43.3	47.4	53.1	
408211	14.5	20.6	24.9	28.7	32.1	35.6	39.3	43.7	49.7	
408221	16.6	22.6	27.0	30.7	34.1	37.6	41.3	45.6	51.7	
408231	19.2	25.3	29.7	33.5	37.0	40.5	44.3	48.7	54.8	
<del>40</del> 8241	19.9	25.7	29.9	33.5	36.9	40.2	43.8	48.0	53.8	
198311	14.4	20.8	25.4	29.3	33.0	36.7	40.6	45.3	51.7	
198321	16.8	22.4	26.4	29.9	33.1	36.3	39.8	43.8	49.4	
198331	18.9	25.0	29.3	33.0	36.5	39.9	43.6	48.0	54.0	
108341	18.7	24.5	28.7	32.2	35.5	38.9	42.4	46.6	52.3	
298311	16.1	22.3	26.8	30.6	34.1	37.7	41.5	46.0	52.2	
298321 298331	18.8 17.1	24.8 23.2	29.1 27.6	32.8 31.4	36.3 34.9	39.7 38.4	43.4 42.2	47.8 46.6	53.8 52.7	
298341	17.2	23.3	27.7	31.5	35.0	38.5	42.3	46.7	52.7 52.8	
LEGITI	11.2	43.3	£1 .1	31.3	JJ. ¥	30.3	74.0	10.1	JL.V	
PHRH										
308211	6.92	6.94	6.95	6.96	6.97	6.98	6.99	7.01	7.02	
398221	6.93	6.94	6.95	6.96	6.96	6.97	6.98	6.99	7.00	
398231	6.90	6.94	6.96	6.98	7.00	7.02	7.04	7.07	7.10	
308241	6.90	6.93	6.95	6.97	6.98	7.00	7.02	7.04	7.07	
408211	6.91	6.94	6.96	6.98	6.99	7.01	7.02	7.04	7.07	
408221	6.92	6.94	6.96	6.97	6.99	7.00	7.02	7.04	7.06	
408231	6.91	6.94	6.96	6.98	7.00	7.02	7.84	7.06	7.09	
4 <b>9</b> 8241 1 <b>9</b> 8311	6.92 6.93	6.95 6.96	6.97 6.98	6.99	7.01 7.02	7.43	7.05	7.97	7.10	
198321	6.93	6.97	7.90	7.00 7.02	7.05	7.03 7.07	7.05 7.10	7.07 7.13	7.10 7.17	
108331	6.92	6.97	7.01	7.04	7.07	7.10	7.14	7.17	7.23	
198341	6.88	6.95	7.01	7.06	7.10	7.14	7.19	7.24	7.32	
298311	6.91	6.98	7.03	7.07	7.11	7.15	7.19	7.24	7.31	
208321	6.91	6.98	7.03	7.47	7.11	7.15	7.19	7.24	7.31	
208331	6.92	6.99	7.84	7.08	7.12	7.16	7.20	7.25	7.32	
298341	6.91	6.98	7.92	7.87	7.10	7.14	7.18	7.23	7.30	
-	-							_		חרפווער
CONDUC										RECEIVED
308211	548	607 -		685	719	753	789	_ 832_	891	-
398221	576	619	650	676	700	725	751	782	824	
398231	600	634	659	680	699	719	748	765	799	1000
398241	614	653	681	785	727	750	774	802	841	- n - D.L.Y C.
408211	598 500	637	665	689	711	733	757 745	785	823 005	ATE OF ILLINOIS
498221 498231	599 6 <b>0</b> 5	635 639	660 664	682 686	702 705	723 725	745 747	770 771	805 846	
408241	625	657	681	7 <b>0</b> 1	72 <b>0</b>	738	758	782	814	
188311	597	632	658	686	700	726	742	767	863	
198321	546	605	648	685	719	753	789	832	891	
198331	569	625	665	788	732	765	799	840	896	
198341	571	629	672	708	741	775	811	854	912	
208311	558	621	667	706	743	779	819	864	928	
208321	575	634	676	712	746	780	816	858	917	
208331	528	5%	645	687	726	765	847	856	925	01/ <del>4</del>
208341	556	617	661	699	734	769	897	851	913	Plate #2
										·

FREQUENCY TABL

# PROBABILITY OF VALUE BEING GREATER THAN INDICATED

	90	80	70	60	50	40	30	20	10	
co <b>n</b> o										
CODR 398211	10.54	16.62	19.80	22.91	25,80	28.60	31.25	35.04	39.07	
348221	13.5	19.9	24.6	28.6	32.0	35.9	38.	41.9	48.2	
398231	17.1	23.8	28.7	32.4	35.9	39.9	44.5	49.4	56.1	
398241	20.1	26 4	30.0	33.7	36.7	<b>39</b> .5	43.0	47.3	51.6	
498211	14.1	21.2	26.1	28.7	32.2	35.5	39.1	43.4	50.1	
408221	16.5	22.9	26.3	30 1	34.1	37.9	41.6	45.6	52.5	
408231	20.5	25.1	29.1	33.3	36.1	39.8	42.9	48.4	56.1	
408241	21.0	25.9	29.1	33.3	36.2	39.8	43.5	48.4	54.6	
198311	14.6	21.0	26.2	30.0	33.8	37.9	41.3	45.1	50 Q	
198321	18.2	22.7	26.5	30.2	33.1	35.6	39.6	44.1	50.0	
108331	17.8	24.6	29.7	33.5	36.5	39.9	43.4	48.1	52.8	
108341	19.8	25.0	28.6	32.0	35.1	37.7	41.3	46.3	52.4	
208311	16.5	22.6	27.8	30.5	33.9	37.2	41.8	45.7	52 8	
208321	17.5	24.4	28.8	32.5	36.	44.2	43.8	48.8	53.6	
298331	15.7	22.8	28.4	33.1	35.5	39.4	43.2	46.9	51.2	
208341	17.5	23.1	27.8	31.2	35 4	39.0	42.3	46.8	52.9	
PHRH										
308211	6.92	6.94	6.95	6.96	6.97	6.98	6.99	7.01	7.03	
308221	6.93	6.94	6.95	6.96	6.96	6.97	6.98	6.99	7.00	
308231	6.90	6.94	6.97	6.99	7.00	7.12	7.04	7.47	7.10	
308241	6.90	6.93	6.95	6.97	6.98	7.00	7.01	7.04	7.07	
408211	6.91	6.94	6.96	6.97	6.99	7.41	7.03	7.05	7.07	
498221	6.92	6.94	6.96	6.97	6.99	7.01	7.02	7.04	7.06	
408231	6.90	6.94	6.96	6.99	7.00	7.82	7.83	7.06	7.09	
408241	6.91	6.95	6.97	7.00	7.01	7.03	7.04	7.86	7.10	
198311	6.93	6.97	6.99	7.81	7.02	7.04	7.05	7.07	7.10	
198321 198331	6.92 6.91	6.97 6.97	7.01 7.01	7.03 7.03	7.06 7.07	7. <b>87</b> 7.10	7.09 7.14	7.12 7.17	7.15 7.23	
198341	6.87	6.96	7.00	7.04	7.10	7.14	7.17	7.25	7.34	
208311	6.91	6.97	7.02	7.07	7.11	7.15	7.19	7.25	7.32	
208321	6.92	6.96	7.02	7.07	7.11	7.15	7.20	7.24	7.32	
208331	6.93	6.98	7.04	7.08	7.12	7.17	7.22	7.26	7.32	
208341	6.92	6.97	7.03	7.06	7.11	7.15	7.19	7.23	7.30	
					···••			1.20		
CONDUC 308211	, ik 	685	648	677	717	750	794	833	900	-
308221	577	689	652	682	699	723	751	775	819	
308231	604	628	656	684	702	719	737	757	809	
398241	602	654	681	743	729	750	780	804	842	
408211	597	633	664	691	719	736	760	785	820	
408221	597	632	660	687	709	725	750	766	799	
498231	607	641	663	685	705	728	748	775	895	
408241	621	654	680	700	721	741	763	782	812	
198311	600	630	655	676	696	715	737	775	812	
198321	539	607	653	690	727	7\$5	783	821	882	
108331	570	638	667	705	733	758	794	835	891	
108341	574	629	656	699	734	774	812	866	911	
208311	559	621	669	706	735	766	814	863	936	
298321	583	632	677	798	751	782	819	852	908	
298331	513	590	657	700	735	774	806	857	923	
208341	550	616	660	699	731	766	809	851	921	

	MEAN	STO DEV	SKENNESS	KURTOSIS	10PC CONF	MEAN 90PC
CODR						
398211	25.43	11.18	1	2 9	24.60	26.26
398221	31,28	12.78	1	2.6	30.34	32.23
308231	36.48	15.92	Û	2.7	35.37	37,59
398241	36.46	12.98	.0	3.3	35.50	37.42
498211	32.13	13.73	. 0	2.9	31.12	33,14
408221	34.13	13.67	.1	2.8	33.12	35.14
408231	36.99	13.89	. 2	2.9	35.96	38.02
408241	36.87	13.22	.1	2.9	35.89	37.85
198311	33.02	14.54	~.2	2.9	31.95	34.10
198321	33.10	12.75	.0	3.6	32.16	34.05
198331 198341	36.47 75.57	13.67	1 .1	2.8 3.2	35.46 34.56	37.48 36.50
208311	35.53 34.15	13.11 14.85	- 1	3.1	33.11	35.19
208321	36.27	13.65	.0	2.5	35.26	37.28
208331	34.89	13.91	3	2.9	33.86	35.92
208341	35.12	13.91	.1	3.0	33.99	36.05
PHRH						
398211	6.971	.0421	.0	3.1	6.968	6.974
398221	6.964	.0287	- 1	2.8	6.962	6.966
398231	7.003	.0768	1	2.8	6.997	7.008
308241	6.985	. 0637	.1	2.8	6.980	6.989
<del>40</del> 8211	6.992	.0630	.1	2.8	6.987	6.996
408221	6.989	.0571	. 1	2.8	6.985	6.994
498231	6.999	.0713	. 0	2.7	6.994	7.005
<del>40</del> 8241	7.008	.0715	.0	2.9	7.002	7.013
198311	7.018	.0652	3	3.4	7.013	7.023
198321	7.049	.0942	. 0	3.1	7.042	7.056
198331	7.071	.1219	.2	2.8	7.062	7.080
198341	7.499	.1709	.1	2.6	7.886	7.111
2 <del>0</del> 8311 2 <b>0</b> 8321	7.111 7.110	. 1559 . 1552	. <b>0</b> . 0	2.8 2.6	7.099 7.098	7.122 7.121
2 <b>0</b> 8331	7.121	.1545	.u 2	2.6	7.109	7.132
208341	7.104	1505	2	3.1	7.893	7.115
	1.107	. 1000		· · · · · ·	1.470	1.113
CONDUCT				_		·
308211-	<del>-719-2</del>	133.8	0	-2.8	709.3	729.1
398221 398231	700.3	96.71 77.52	.2	3.1	693.1	797.4
308231 308241	699.3 727.3	88.51	.1 1	2.7	693.6 720.7	705.0 733.8
498211	710.7	87.80	1 1	2.6 2.8	704.3	733.0 717.2
408221	702.5	80.37	1	2.8	696.6	708.4
408231	705.4	78.46	.0	2.9	699.6	711.2
408241	719.6	74.82	1	2.7	714.1	725.0
198311	699.8	80.12	.2	2.5	693.9	705.8
198321	718.8	134.8	.6	3.2	708.8	728.7
198331	732.3	127.6	.1	3.2	722.9	741.7
108341	741.5	133.3	.1	2.9	731.6	751.3
208311	742.8	144.3	.2	2.8	732.2	753.5
208321	745.9	133.2	.1	3.3	736.1	755.8
208331	726.2	154.9	3	2.8	714.7	737.6
208341	734.1	139.2	.1	2.8	723.8	744.4

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HISTOGRAM FOR COLUMN 203341 OF COOF
 37- 39
 34- 36
 31- 33
 28- 30
 25- 27
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 22- 24
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 19- 21
               ......
              ........
 16- 18
 13- 15
              11111111111
 11- 12
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  7- 9
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                 1
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       -7 4 STOP
START
                 74.4 SIZE OF INTERVAL
                                  4.05
  HISTOGRAM FOR COLUMN 298341 OF PHRH
 34- 36
                 1 1
 31- 33
                 1 111
 28- 30
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 25- 27
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 22- 24
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 19- 21
               ........
 16- 18
               111111111
 13- 15
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 14- 12
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              9
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START
       6.6 STOP
                 7 5 SIZE OF INTERVAL
                                   .15
  HISTOGRAM FOR COLUMN 298341 OF CONDUCTR
 37- 39
 34- 36
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 31- 33
                1.1
                ...
 28- 34
 25- 27
              1 111 1
            1111111
 22- 24
 19- 21
             11111111
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 16- 18
 13- 15
           .......
 14- 12
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 7- 9
          .........
 4-6 ** *********
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                4
                     5
                             8
     9 1 4 6 9 1 4
398.0 STOP 1148.8 STZE OF INTERVAL
                                 37 50
ENTER POOL OR MODELING LANGUAGE COMMAND
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